

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	744	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various) and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 14:36
L2	117	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various) and "204".clas. and (bias voltage)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 14:39
L4	79	(pulsed with DC) and target and sputter\$ and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:57
L5	124	(puls\$3 with DC) and target and sputter\$ and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:57
L6	752	(puls\$3 with DC) and target and sputter\$ and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:58
L7	102	(puls\$3 with DC) and target and sputter\$ and evaporat\$3 and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 15:58
L12	4	("4992153"   "5242706"   "5395735"   "5468930").PN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/25 17:37
L13	1	("0001933").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/25 17:52
L14	1	("H001933").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/25 17:52
L15	118	(Ti-8Al-1V-1Mo) or (Ti-8Al-1Mo-1V) or (Ti-8Al-V-Mo) or (Ti-8Al-Mo-V)	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:10
L16	2	I15 and sputter and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:11
L17	4	I15 and sputter	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:11
L18	460	204/192.3.ccls. or 427/524.ccls.	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:28
L19	164	(204/192.3.ccls. or 427/524.ccls.) and sputter\$3 and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/25 18:29

## EAST Search History

S1	20	((("5192578") or ("5439575") or ("5656141") or ("6663755") or ("6787740") or ("6908288") or ("200310153180") or ("5846608") or ("20030056716") or ("4008844") or ("4073639") or ("5106010") or ("5549767") or ("5794338") or ("4822248") or ("5451142") or ("5525429") or ("5732467") or ("5783318") or ("6049978") or ("6302625"))).PN. or (2002/0076573).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/01 16:18
S2	0	wo-2004011688-\$.did. or wo-2003028428-\$.did. or ep-1325969-\$.did.	US-PGPUB; USPAT	ADJ	ON	2007/08/01 15:56
S3	0	wo-04011688-\$.did. or wo-03028428-\$.did. or ep-1325969-\$.did.	US-PGPUB; USPAT	ADJ	ON	2007/08/01 15:56
S4	5	wo-2004011688-\$.did. or wo-2003028428-\$.did. or ep-1325969-\$.did.	EPO; JPO; DERWENT	ADJ	ON	2007/08/01 15:56
S5	102178	((titanium or ti) and (aluminum or al) and (molybdenum or mo)) and (tin or sn or zirconium or zr or vanadium or v)	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:20
S6	15460	sputter and (pulse or rf or ac)	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:21
S7	3094	S5 and S6	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:21
S8	388	S5 and S6 and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:20
S9	4	S5 and S6 and "204".clas. and ksi	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:26
S10	22	S5 and S6 and ksi	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S11	28	ion physical vapor deposition	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S12	276	(ion physical vapor deposition) or ipvd	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:34
S13	25	S12 and S5	US-PGPUB; USPAT	ADJ	ON	2007/08/01 16:35
S14	102319	((titanium or ti) and (aluminum or al) and (molybdenum or mo)) and (tin or sn or zirconium or zr or vanadium or v)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:21
S15	15479	sputter and (pulse or rf or ac)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:21

## EAST Search History

S16	6	S14 and S15 and "204".clas. and (co-deposited or codeposited)	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:39
S17	6	S14 and S15 and "204".clas. and (co-deposited or codeposited or (simultaneous near4 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 11:44
S18	3	S14 and S15 and "204".clas. and (co-deposit or codeposit or (simultaneous near4 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:24
S19	1	("6153313").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/02 14:24
S20	193	(pvd or (physical vapor deposition)) and (co-deposit or codeposit or (simultaneous near6 deposit))	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:41
S21	62	(pvd or (physical vapor deposition)) and (co-deposit or codeposit or (simultaneous near6 deposit)) and S14	US-PGPUB; USPAT	ADJ	ON	2007/08/02 14:41
S22	151	(bond strength) and (psi or ksi) and (refractory metal)	US-PGPUB; USPAT; EPO; JPO; DERWENT	ADJ	ON	2007/08/03 12:25
S23	151	(bond strength) and (psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26
S24	0	(bond strength) with (psi or ksi) with (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26
S25	43	(bond strength) with (psi or ksi) and(refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:26
S26	43	(bond strength) with (psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:36
S27	1910	(psi or ksi) and (refractory metal)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:36
S28	223	(psi or ksi) and (refractory metal) and ("204".clas. or "427".clas.)	US-PGPUB; USPAT	ADJ	ON	2007/08/03 12:37
S29	63	chiang.in. and (applied material). as.	US-PGPUB; USPAT	ADJ	ON	2007/08/06 11:51
S30	44	chiang.in. and (applied material). as. and (PVD or (physical vapor deposition))	US-PGPUB; USPAT	ADJ	ON	2007/08/06 11:51
S31	1	("6352629").PN.	US-PGPUB; USPAT	OR	OFF	2007/08/06 14:33
S32	2	Ti6Al2Sn4Zr2Mo	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:17

## EAST Search History

S33	19	"204".clas. and (PVD or (physical vapor deposition)) and (monitor with (plasma and (ion or power or volt or elect)))	US-PGPUB; USPAT	ADJ	ON	2007/08/11 09:27
S34	171	Ti-6Al-2Sn-4Zr-2Mo	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:18
S35	7717	ksi	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:18
S36	0	ksi and (pound-force per square inch)	US-PGPUB; USPAT	ADJ	ON	2007/11/13 12:45
S37	1172	bergmann.in.	US-PGPUB; USPAT	ADJ	ON	2008/01/22 17:48
S39	4	bergmann.in. and sputter and (electron beam)	US-PGPUB; USPAT	ADJ	ON	2008/01/22 17:48
S40	13	bergmann.in. and sputter	US-PGPUB; USPAT	ADJ	ON	2008/01/23 10:23
S41	1	("3773639").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/23 10:57
S42	29	("3964986"   "4419202"   "4842710"   "4871434").PN. OR ("4992153").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/23 11:09
S43	1	("5514260").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/23 13:03
S44	17	("4867859"   "4877505"   "4992153"   "5234561"   "5413684"   "5427671"   "5454919").PN. OR ("5514260").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/01/23 13:03
S45	262	(pulsed with DC) and target and sputter\$ and titanium and tungsten	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S46	17	(pulsed with DC) and target and sputter\$ and titanium and tungsten and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S47	140	(pulsed with DC) and target and sputter\$ and titanium and tungsten and (evaporation or vaporized)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 12:30
S48	226	(Ti-6Al-2Sn-4Zr-2Mo) or (Ti-8Al-1V-1Mo) or (Ti-6Al-2Sn-4Zr-6Mo)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20
S49	34	S48 and sputter\$	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20
S50	2	S48 and sputter\$ and (DC with puls\$3)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:20

## EAST Search History

S51	14	S48 and sputter\$ and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 13:22
S52	1	("5514260").PN.	US-PGPUB; USPAT	OR	OFF	2008/01/24 16:39
S53	1	10/734696.app.	US-PGPUB; USPAT	ADJ	ON	2008/01/24 17:00
S54	21	S48 and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:14
S55	20063	titanium and aluminum and vanadium and molybdenum	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:55
S56	1053	S55 and (sputter\$3 with target)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:55
S57	596	S55 and (sputter\$3 with target) and evaporat\$3	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:56
S58	360	S55 and (sputter\$3 with target) and evaporat\$3 and apparatus	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:57
S59	40	S55 and (sputter\$3 with target) and evaporat\$3 and apparatus and "204".clas.	US-PGPUB; USPAT	ADJ	ON	2008/01/24 18:57
S60	10329	two near target	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04
S61	94304	(two with sputter\$3 target) or (two with target)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04
S62	22807	((two with sputter\$3 target) or (two with target)) same (different or distinct or varied or various)	US-PGPUB; USPAT	ADJ	ON	2008/01/24 19:04